



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

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Product Identifier

RM Number: 8321
RM Name: Peptide Mixture for Proteomics

Under the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this Reference Material (RM) is NOT classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified. There are no hazard pictograms, hazard statements or signal word associated with it. Safety Data Sheet information is not required. This document may be used in conjunction with your hazard communication program.

The SRM has been determined to be non-hazardous by the National Institute of Standards and Technology (NIST) of the U.S. Department of Commerce under paragraph (d) of OSHA Standards 29 CFR Part 1910.1200. The SRM will not release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

Description: This RM is intended to support investigations used to identify peptides in complex peptide mixtures such as those in mass spectrometry-based proteomics. RM 8321 can be used to help assess the confidence of peptide identification within a laboratory or comparability between laboratories or among different measurement approaches. RM 8321 can also be used in the development and validation of new investigative approaches for identifying peptides in complex peptide mixtures. A unit of RM 8321 consists of three vials, each containing approximately 50 μL of frozen aqueous solution containing 0.1 mL/L formic acid. The peptides in this RM are estimated to be in a concentration range of 0.1 pmol/ μL to 10 pmol/ μL .

Disposal: RM 8321 should be disposed of in accordance with local, state, and federal regulations.

Transport Information: This material is not regulated by the U.S. Department of Transportation (DOT) and/or International Air Transportation Association (IATA).

Disclaimer: This document was prepared carefully, using current references. Users of this RM should ensure that this document and the corresponding Report of Investigation in their possession are current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at <http://www.nist.gov/srm>.